PATENT Ally, Dkt. No. WEAT/0393

IN THE CLAIMS:

- 1.—15. (Canceled)
- 16. (Currently Amended) A method for loosening a threaded connection on a tubular member, comprising:

lowering a back-off tool through the tubular member to a position substantially proximate the threaded connection, wherein the back-off tool comprises two or more sonic wave generators, each having at least one of a piezoelectric ceramic and a stack of piezoelectric plates; and

activating the two or more sonic wave generators simultaneously to cause the sonic wave generator to generate sonic waves; and

setting the tubular member to a neutral weight position at the threaded connection above a sticking condition.

- 17. (Original) The method of claim 16, wherein the sonic waves are configured to loosen the threaded connection.
- 18. (Cancelled)
- 19. (Cancelled)
- 20. (Cancelled)
- 21. (Original) The method of claim 16, further comprising applying a reverse torque to the tubular member.
- 22. (Canceled)
- 23. (Original) The method of claim 16, wherein the back-off tool is activated while moving a neutral weight position up and down the tubular member.
- 24. (Previously Presented) A method for loosening a threaded connection on a tubular member, comprising:

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lowering a back-off tool through the tubular member to a position substantially proximate the threaded connection, wherein the back-off tool comprises a sonic wave generator having at least one of a piezoelectric ceramic and a stack of piezoelectric plates; and

activating the sonic wave generator to generate sonic waves while reciprocating the tubular member.

- 25. (Canceled)
- 26. (Previously Presented) A method for backing-off an upper portion of a tubular member joined to a lower portion of the tubular member by a threaded connection in a wellbore, comprising:

applying a reverse torque to the upper portion of the tubular member;

lowering a back-off tool through the tubular member to a position substantially proximate the threaded connection, wherein the back-off tool comprises a sonic wave generator having at least one of a piezoelectric ceramic and a stack of piezoelectric plates; and

generating sonic waves through the back-off tool to loosen the threaded connection, while moving a neutral weight position along the tubular member.

- 27. (Cancelled)
- 28. (Original) The method of claim 26, further comprising activating the back-off tool to generate the sonic waves.
- 29. (Previously Presented) The method of claim 26, further comprising setting the tubular member to the neutral weight position at the threaded connection above a sticking condition.
- 30. (Cancelled)
- 31. (Canceled)
- 32. (Original) The method of claim 26, further comprising varying one or more frequencies of the sonic waves.

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- 33. (Original) The method of claim 26, further comprising retrieving the upper portion from the wellbore.
- 34-40. (Canceled)
- 41. (Previously Presented) A method for loosening a threaded connection on a tubular member, comprising:

lowering a back-off tool through the tubular member to a position substantially proximate the threaded connection, wherein the back-off tool comprises a sonic wave generator having at least one of a piezoelectric ceramic and a stack of piezoelectric plates; and

activating the back-off tool to cause the sonic wave generator to generate sonic waves, while moving a neutral weight position up and down the tubular member.

- 42. (Canceled)
- 43. (Canceled)
- 44. (New) A method for loosening a threaded connection on a tubular member, comprising:

lowering a back-off tool through the tubular member to a position substantially proximate the threaded connection, wherein the back-off tool comprises two or more sonic wave generators, each having at least one of a piezoelectric ceramic and a stack of piezoelectric plates; and

activating the two or more sonic wave generators simultaneously to cause the sonic wave generator to generate sonic waves,

wherein the back-off tool is activated while moving a neutral weight position up and down the tubular member.

45. (New) The method of claim 44, wherein the sonic waves are configured to loosen the threaded connection.

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46. (New) The method of claim 44, further comprising applying a reverse torque to the tubular member.